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THE
ONTARIO WATER RESOURCES
COMMISSION

WATER POLLUTION SURVEY

TOWNSHIP OF TORONTO

1964

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1964

COUNTY OF PEEL

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REPORT ON

WATER POLLUTION SURVEY

TOWNSHIP OF TORONTO

BY

ONTARIO WATER RESOURCES COMMISSION

SEPTEMBER, 1964.

INTRODUCTION

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INTRODUCTION

The purpose of this survey was to investigate waste discharges to open ditches due to malfunctioning private sewage disposal systems in the Township of Toronto, to establish the magnitude of pollution of drainage courses as previously alleged by the local health unit authorities, and to use this information as a basis for remedial action.

The survey was conducted by the Sanitary Division of the Ontario Water Resources Commission in conjunction with the Peel County Health Unit. The Health Unit personnel assisted in locating and sampling the major problem areas. All assistance obtained is gratefully acknowledged.

The field work for this survey was initiated on June 22, 1964 and was completed July 10th of the same year. All samples were submitted to the Ontario Water Resources Commission laboratory in Toronto.

A- GENERAL INFORMATION

1- Water Supply

The Township of Toronto obtains its water supply from Lake Ontario by means of a complete treatment water works situated on the shore of Lake Ontario, immediately east of Crookes Park, in Lakeview.

The location of this water works is shown on the street map of Toronto Township appended to this report.

2- Municipal Sewage Treatment Facilities

The location of the six sewage treatment plants serving the Township of Toronto are shown on a street map appended to this report.

The Clarkson, Dixie, Erindale and Malton plants are operated by the Township, the Lakeview-OWRC plant is operated by the Commission and the Toronto International Airport plant is operated by the Federal Department of Transport.

Greater details concerning municipal water supply and sewage treatment facilities servicing the Township of Toronto can be found in the OWRC report on Water Resources Survey, County of Peel, dated May 1963.

3- Surface Drainage

Surface drainage of the township is facilitated by three major watercourses which traverse the Township of Toronto and numerous local watercourses all of which have outlets to Lake Ontario. The major watercourses are the Credit River, the Etobicoke Creek and the Mimico Creek. In municipal areas, surface drainage is generally discharged to roadside ditches and storm sewers having outfalls to watercourses and Lake Ontario.

4- Soil Overburden

Soil percolation tests performed by the local health unit authorities indicate that the soil overburden covering most parts of the Township of Toronto generally consists of clay of

low permeability underlaid by shale.

B- FIELD INVESTIGATION

1- Areas Investigated

Only the areas where major sewage disposal problems were suspected or known to exist were investigated. The areas of the township which were investigated have been arbitrarily numbered as a means of identification and to assist in the presentation of results.

2- Sampling Procedure

Samples for bacteriological examination and chemical analyses were obtained from the source of discharge of wastes to roadside ditches and other watercourses. The contents of open ditches were generally sampled rather than the direct waste discharge from premises because in the latter case the waste liquid flow was generally too small to permit sampling. Except where otherwise noted, the tabulated sample results must be regarded as evidence of contamination of roadside ditches rather than as the quality of specific waste discharge from premises.

3- Interpretation of Results

Since a period of dry weather existed at the time of this survey the liquid contents of roadside ditches were mainly as a result of direct waste discharge from adjacent premises. It is reasonable to assume that in most cases the liquid contents of roadside ditches closely resembled the effluent from adjacent

premises since little dilution had occurred.

4- Types of Waste Discharge

In many instances laundry and kitchen wastes were being discharged via a private drain directly to a roadside ditch. Also overflows from septic tank and tile field systems were directed to roadside ditches to prevent ponding. In other cases wastes from tile fields reached open ditches by underground seepage.

C- INTERPRETATION OF LABORATORY RESULTS

The most common analysis of sanitary significance are: the biological oxygen demand, suspended solids and the total coliform examination.

Biological Oxygen Demand (BOD)

The BOD of sewage, industrial wastes or surface waters is the oxygen required to stabilize decomposable organic matter or chemical material by biochemical action. A high BOD is often indicative of recent organic or chemical pollution. The reduction of dissolved oxygen in water by biochemical stabilization of wastes promotes suffocation of fish in streams and lakes. When dissolved oxygen in water is reduced to zero, a septic condition occurs whereby offensive odours are produced.

Suspended Solids

This is a measure of undissolved solids of organic or inorganic nature.

Membrane Filter Coliform Count

The membrane filter technique is employed to obtain direct enumeration of coliform bacteria.

The OWRC objectives for surface waters in Ontario are as follows:

5-Day BOD	-	not greater than 4 ppm.
MF Coliform	-	not greater than 2,400 coliforms per 100 ml.

Adequate protection for surface waters except in certain specific instances should be afforded if waste discharge to drainage ditches and watercourses have concentrations and a pH range not exceeding the following limits:

5-Day BOD	-	15 ppm
Suspended Solids	-	15 ppm
pH Range	-	5.5-10.6

D- DISCUSSION OF LABORATORY RESULTS

The laboratory results of samples obtained during this survey are tabulated in the Appendix of this report.

Of 119 bacteriological samples taken, 115 (96%) show an MF coliform count greater than 10,000; 88 (74%) show an MF coliform count greater than 1,000,000 and 9 (7%) show an MF coliform count greater than 1,000,000,000.

Of 95 chemical samples obtained from waste discharges, 89 (94%) and 95 (100%) respectively show 5-Day BOD and suspended solids contents exceeding OWRC recommended maximum of 15 ppm.

Seventy-five per cent of the above have BOD values greater than 100 ppm and 76% have suspended solids contents greater than 1000 ppm.

1- Area #1A - Lakeview

Area #1A is that part of Lakeview which is serviced by municipal sanitary sewers. It is bounded by the Q.E.W. Hwy., the Etobicoke Creek, Lake Ontario, Mineola Road E., and Trotwood Ave.

Although this area is provided with municipal sanitary sewers, an exceptionally large number of residences still operate malfunctioning private sewage disposal systems. A total of 89 sampling points were established in this area of which 80 represent waste discharge outlets from residential locations, the others being from miscellaneous locations such as storm sewers and commercial establishments.

Ninety-six per cent and eighty-four per cent of the samples show MF Coliform Count exceeding 10,000 and 1,000,000 respectively. Ninety-two per cent and ninety-nine per cent of the chemical samples show BOD and suspended solids contents respectively exceeding OWRC recommended maximum of 15 ppm.

1.1. Residential Premises

A large number of waste discharges were located on the following streets: Blamefield Road, Enola Ave., Montbeck Cres., and Westmount Ave.

The discharges on Montbeck Ave. contaminate a local watercourse traversing the area. This local watercourse flows through Crookes Park and has an outlet to Lake Ontario in the immediate vicinity of Crookes Park public beach and Toronto Township water intake.

The premises at sampling point numbers 50 to 56 are serviced by septic tank systems and outdoor privies which contribute to the unsanitary condition of the drainage ditch behind the premises. The drainage ditch is tributary to the local watercourse mentioned previously.

The results of samples obtained from the watercourse show an increase in coliform count, BOD and suspended solids in the stream as it flows from Lakeshore Road E. to Lake Ontario at Crookes Park, indicating that contaminating wastes enter the stream in that section.

The most frequent reason given by the residents for the delay in making necessary connections to municipal sewers was that of prohibitive cost involved in improving unsatisfactory plumbing within residences such that it complies with plumbing regulations.

1.2 Commercial Establishments

(a) Wally's Trailer Park
1257 Lakeshore Road

Comparison of results from sampling point 84 and 85 indicate that wastes were being discharged to a storm sewer at

Lakeshore Road E. The origin of these wastes was determined by dye tests to be from Wally's Trailer Park.

(b) White Rose Service Station
1459 Lakeshore Road East

The laboratory results of samples taken from the ditch, immediately east of the White Rose Station are tabulated as sampling point no. 87. These indicate an MF Coliform count of 10,900,000, a 5-Day BOD of 72 ppm and a suspended solids content of 312 ppm. Both the BOD and suspended solids values exceed the OWRC recommended maximum of 15 ppm.

Dye placed in the floor drain and washroom of the White Rose service station subsequently appeared in the drainage ditch. It was reported that other service stations may also be discharging waste to this drainage ditch. However, dye tests were not performed on the other stations due to time limitation.

(c) Pleasant Valley Tourist Court Limited
1499 Lakeshore Road East

Pleasant Valley Tourist Court Limited operates a trailer park located on the west bank of Etobicoke Creek, at Lakeshore Road. The trailer park consists of 125 trailer lots, 15 of which were vacant at the time of this survey. The trailers are privately owned.

The trailer lots have connections to the central sewage disposal system owned and operated by Pleasant Valley Tourist Court Limited. This system consists of three septic

tanks with tile fields. Excess flows from the tile fields are directed to a chlorine contact chamber before being discharged to the roadside ditch which flows to the Etobicoke Creek.

The chemical analysis of a sample obtained from the final effluent showed the 5-Day BOD and suspended solids content to be 280 ppm and 150 ppm respectively, both of which exceeded the OWRC recommended maximum of 15 ppm. The bacteriological sample obtained on June 29, the day of this inspection was found broken upon arrival to the Lab. A bacteriological sample taken at a later date, (July 16, 1964) showed an M.F. Coliform Count of zero indicating that chlorination treatment was satisfactory at the time when the sample was taken. It was reported that the chlorination treatment is occasionally interrupted because of equipment breakdown.

The unsatisfactory effluent makes the above waste discharge both a health hazard and a serious threat to water pollution.

The delay in making the necessary connections to the municipal sewer system was reported to be due to the requirement of a pumping station to elevate the sewage from the trailer park to the trunk sewer on Lakeshore Road and because of an anticipated sale of this property for a number of years. However, after several years, the property has not been sold and inadequately treated sewage continues to be discharged from the trailer park.

Engineering plans to effect necessary sewer connections are reportedly completed. The anticipated sale of this property should no longer be regarded as a valid excuse to permit further delay in making the necessary connections to municipal sewers.

2- Area #1B - Lakeview

This residential area is situated in Lakeview and is bounded by Hwy. #10, Hwy. #5, Trotwood Ave. and Mineola Road East. Municipal sanitary sewers are not available in the area.

The laboratory results of nine samples collected from various locations in this area are tabulated. These indicate M.F. Coliform counts ranging from 19,000,000 to 1,310,000,000. All samples showed 5-Day BOD's and suspended solids contents exceeding the OWRC recommended maximum of 15 ppm.

Five waste discharges occurred on Kenmur Ave. The waste discharges within this area appeared to be mainly those of laundry wastes.

It is hoped that in the near future, the municipal sanitary sewers now present in area #1A will be extended into area #1B.

3- Area #2 - Cooksville

Area #2 is essentially a commercial area and bounded by Cawthra Road, the H.E.P.C. tower lines, Stanfield Road, and Hwy. #5. Sanitary sewers are available in this area.

The above area was investigated following a complaint of waste water and sludge accumulation in the open ditch at 950 Middlegate Road. The analytical results of samples obtained from water flowing in the ditch at 950 Middlegate Road are tabulated as sampling point No. 98. These indicate an M.F. Coliform count of 6,700. The 5-Day BOD and suspended solids contents are 7 ppm and 150 ppm respectively.

This ditch was found to have its origin behind a farm yard at 922 Dundas St. E. and King Building Materials, 872 Dundas St. E.

(a) Mrs. Robinson's Farm

No livestock is kept on the farm and the farmhouse is rented to tenants. The farmhouse is serviced by a septic tank and tile field sewage disposal system. The effluent from this property was greyish in colour and appeared to be sewage overflow from a tile field. The laboratory results of samples obtained from the effluent are presented in this report as sampling point No. 99. These indicate an M.F. Coliform count of 1,000,000. The 5-Day BOD and suspended solids contents are 60 ppm and 1680 ppm respectively, both exceeding OWRC recommended maximum of 15 ppm. The waste discharge from this property flowed to the open ditch which bypasses the premises at 950 Middlegate Road.

(b) King Building Materials
872 Dundas Street East

The waste discharge from this commercial establishment

consisted of waste water from a ready mix concrete reclaiming process. Washings from the ready mix concrete trucks are dumped into a sludge compartment which has a liquid overflow to a sedimentation basin. The overflow from the latter is discharged to the open ditch which bypasses the premises at 950 Middlegate Road. The chemical analysis on a sample obtained from the effluent, and tabulated in this report as sampling point No. 100, indicated the suspended solids content to be 540 ppm which exceeds the OWRC recommended maximum of 15 ppm. The pH was found to be 11.8 which is higher than the OWRC recommended upper limit of 10.6.

The quality of the effluent from this process should be improved.

The combination of waste discharges from the two establishments discussed above appear to be responsible for the accumulation of sludge and putrescible wastes in the open ditch beside 950 Middlegate Road.

(c) Fruehauf Trailer Service
861 Middlegate Road

Wastes from trailer washing operations at this establishment are directed through a grease trap before being discharged via a 10-inch diameter sewer to the roadside ditch. The laboratory results of samples obtained from the open ditch and the sewer discharge are tabulated in this report as sampling point No. 101 and 102 respectively. The results of the chemical analysis indicated a 5-day BOD greater than 500 ppm for both the

contents of the ditch and the effluent. The suspended solids content of the effluent was 44 ppm.

Although the washrooms at this establishment are reportedly connected to the municipal sanitary sewers, a high M.F. Coliform count of 490,000 was obtained in the sample taken from the effluent. The M.F. Coliform count of the sample obtained from the open ditch was 58,000,000.

In addition to the above, the following determinations were performed on the chemical sample obtained from the sewer discharge.

<u>pH</u>	<u>Chrome as Cr ppm</u>	<u>Anionic Detergents as ABS in ppm</u>
6.3	0.1	2.6

This sewer discharge should be directed to the municipal sanitary sewers.

4- Area #3 - North of Port Credit, W. of Hwy.#10.

This area is essentially a residential area located north of the municipal limits of the Town of Port Credit and immediately west of Hwy. #10. The area is not serviced by municipal sanitary sewers.

Waste discharge from five premises were investigated. The results of samples obtained from roadside ditches at points immediately downstream from the waste discharge outlets are presented in this report as sampling points No. 103 to 107.

These indicate M.F. Coliform counts ranging from 71,000 to 5,000,000,000. All samples show 5-Day BOD and suspended solids contents in excess of the OWRC recommended maximum of 15 ppm. The values for BOD's ranged from 88 ppm to 170 ppm while those for suspended solids ranged from 1576 ppm to 5668 ppm.

The waste discharges appeared to originate from malfunctioning septic tank systems.

5- Area #4 - Clarkson

Area #4 is a residential area situated in Clarkson and bounded by Southdown Road, the CN Railway tracks, Clarkson Road and the H.E.P.C. tower lines. Municipal sanitary sewers are not available in this area.

The samples obtained from roadside ditches immediately downstream from points of waste discharge are tabulated as sampling points No. 108 to 110. These indicate M.F. Coliform counts ranging from 1,040,000 to 28,000,000. The 5-Day BOD and suspended solids contents range from 540 to 620 ppm and 232 to 10,580 ppm respectively, all of which exceed the OWRC recommended maximum of 15 ppm.

The waste discharges were overflows from malfunctioning weeping tile fields.

6- Area #5 - Clarkson

This is a new residential subdivision on the shore of

Lake Ontario in Clarkson. Municipal sanitary sewers are not available in the area. The results of six sampling point No's. 113 to 118 are tabulated. These indicate M.F. Coliform counts ranging from 119,000 to 300,000,000. The 5-Day BOD and suspended solids contents range from 55 to 300 ppm and 472 to 8164 ppm respectively, all of which exceed the OWRC recommended maximum of 15 ppm.

Waste discharges from premises consisted of laundry wastes, overflow from tile fields and underground seepage from tile fields.

7- Area #6 - Whaley Subdivision

The above area known as the Whaley Subdivision is located South of Dundas St. W. in Cooksville. Municipal sanitary sewers are not available in the area. The results of five samples obtained from open ditches immediately downstream from points of waste discharge are presented as sampling point No. 119 to 123. These indicate M.F. Coliform counts ranging from 150,000 to 5,000,000,000. The 5-Day BOD's and suspended solids contents range from 22 to 680 ppm and 428 to 24,202 ppm respectively, all of which exceed the OWRC recommended maximum of 15 ppm.

The waste discharges generally appeared to be those of laundry and sanitary sewage.

8- Area #7 - Oneida Subdivision

This is a new residential development consisting of high value homes situated on the east bank of the Credit River, South of Upper Middlegate Road, Cooksville.

The area is serviced by private sewage disposal systems, several of which have indicated signs of malfunctioning. The overflows from two septic systems have reportedly been directed to an 8-inch diameter concrete tile which has a discharge outlet to the Credit River.

9- Area #8 - Kendricks Subdivision

Area #8, generally known as the Kendricks Subdivision is located West of Hensall St., on Claircrest Ave., Cooksville. This area is not serviced by municipal sanitary sewer system.

Although no waste discharges were noticed at the time of the survey, the septic tanks with completely excavated, sand filled, tile field systems have been reported to surface during heavy rainfalls and during the spring. Surface water discharges from these malfunctioning private sewage disposal systems flow to roadside ditches and storm sewers.

Several residents of the area have complained to the Peel County Health Unit about bad odours in the area. One resident interviewed at the time of the survey termed the situation intolerable.

10- Area #9 - Fairview Subdivision

This is an unsewered residential area, situated at the S.W. corner of Hwy. #10 and Burnhamthorpe Road West, Cooksville.

The results of eight samples taken from roadside ditches at points immediately downstream from waste discharges are tabulated as sampling points 126 to 133. These indicate M.F. Coliform counts ranging from 580,000 to 1,820,000,000. The 5-Day BOD and suspended solids contents ranged from 105 to 800 ppm and 1284 to 35,986 ppm respectively, all of which exceeded the OWRC recommended maximum of 15 ppm.

Waste discharges in this area appeared to originate from inadequately functioning septic tank and tile field systems.

11- Area #10 - Airport Road

This area is situated on the East side of Airport Road, N.E. of Toronto International Airport.

The results of samples obtained from roadside ditches immediately downstream from points of waste discharges are tabulated as sampling point No. 134 and 135. These indicate M.F. Coliform counts of 4,900,000 and 290,000,000. The 5-Day BOD and suspended solids contents for both samples are greater than 100 ppm, which exceeds the OWRC recommended maximum of 15 ppm.

The waste discharges at both locations were overflows from weeping tile fields.

Aero Inn

One of the two sampling locations was Aero Inn, a 40 unit motel with dining lounge facilities. The inn is located near the Toronto International Airport.

The waste discharge from these premises is estimated at 2000 gallons per day. The flow is well over the absorbing capacity of the weeping tile field provided at the site. As a result, inadequately treated wastes are being discharged to the roadside ditch which drains via a culvert across Airport Road to a sewer. This sewer is reported to be part of the combined storm and sanitary sewer system servicing Toronto International Airport.

It is understood that the entire sewerage system presently servicing Toronto International Airport is to be connected to a Metropolitan Toronto trunk sewer by the fall of 1964.

In view of the location of Aero Inn with respect to Toronto International Airport, an agreement should be sought between the various parties concerned to provide the Inn with a municipal sewer connection.

SUMMARY

Although much has been done in the past by the

Township of Toronto towards water pollution abatement, a considerable amount of work remains to be undertaken.

This report outlines major areas where gross contamination of drainage courses occurs.

The Lakeview area is generally provided with municipal sanitary sewers. However, a very large number of residences and commercial establishments continue to operate malfunctioning private sewage disposal systems.

Gross pollution of drainage courses by private sewage disposal systems also occurs in a large number of residential subdivisions throughout the township.

These areas are shown on the street map provided herewith and are discussed individually in this report.

RECOMMENDATIONS

The following are recommendations applicable to the Township as a whole.

1. All establishments operating private sewage disposal systems should be connected to the municipal sanitary sewers where these are available.
2. Municipal sanitary sewers should be extended into areas where major water pollution problems exist.

3. High density residential developments should not be undertaken in areas where successful operation of private sewage disposal systems is doubtful unless municipal sanitary sewers are provided.

All of which is respectfully submitted.

District Engineer _____

H. Browne, P. Eng.

Approved by _____

bw

K.H. Sharpe, Director.

TABULATION OF ANALYTICAL RESULTS

Sampling Point No.	Location	Date Examined	M.F. Coliform Count per 100 ml	5-Day BOD ppm.	SOLIDS		
					Total ppm.	Susp. ppm.	Diss. ppm.
<u>Area #1A</u>							
1.	191 Angelene St.	June 24/64	3,900,000	580	8,526	7,488	1,038
2.	263 Angelene St.	June 24/64	20,000,000	330	1,500	696	804
3.	879 Atwater Ave.	June 29/64	70,000,000	520	19,218	18,552	666
4.	927 Aviation Rd.	June 23/64	2,900,000	1,350	38,866	37,926	940
5.	1462 Blamefield Rd.	July 3/64	290,000,000	-	-	-	-
6.	1471 Blamefield Rd.	July 3/64	73,000,000	24	1,978	716	1,262
7.	1489 Blamefield Rd.	July 3/64	13,000,000	32	1,308	568	740
8.	1533 Blamefield Rd.	July 3/64	10,000,000	30	4,394	1,660	2,734
9.	1539 Blamefield Rd.	July 3/64	7,000,000	114	9,670	6,768	2,902
10.	1555 Blamefield Rd.	July 3/64	14,100,000	34	2,144	1,064	1,084
11.	1022 Cavan St.	June 25/64	1,500,000,000	2,550	15,006	3,882	1,124
12.	1182 Canterbury Rd.	June 24/64	90,000,000	1,450	22,888	22,432	456
13.	1594 Cawthra Court	July 3/64	14,200,000	24	1,712	1,156	556
14.	1223 Claredale Rd.	July 3/64	4,700,000	140	9,726	9,356	370
15.	1161 Crossfield Bend	June 23/64	640,000	24	1,214	918	296
16.	574 Drymen Cres.	July 3/64	49,000,000	24	3,386	2,234	1,152
17.	584 Drymen Cres.	July 3/64	9,000,000	-	-	-	-
18.	107 Eaglewood Blvd.	June 23/64	9,700,000	-	-	-	-
19.	199 Eaglewood Blvd.	June 23/64	190,000,000	390	1,082	74	1,008
20.	1041 East Ave.	June 25/64	179,000,000	2,750	19,090	19,580	510

Sampling Point No.	Location	Date Examined	M.F. Coliform Count per 100 ml	5-Day BOD ppm.	SOLIDS		
					Total ppm.	Susp. ppm.	Diss. ppm.
21.	1049 East Ave.	June 25/64	65,000,000	3,400	32,902	32,368	534
22.	1101 Eastmount Ave.	June 26/64	420,000,000	580	-	414	-
23.	1032 Enola Ave.	June 25/64	610,000,000	2,650	7,592	6,710	882
24.	1052 Enola Ave.	June 25/64	600,000,000	-	-	-	-
25.	1053 Enola Ave.	June 25/64	9,900,000	-	-	-	-
26.	1072 Enola Ave.	June 25/64	29,000,000	65	4,494	4,240	254
27.	1097 Enola Ave.	June 25/64	80,000,000	165	1,182	856	326
28.	576 Uxbury Cres.	July 3/64	123,000,000	39	3,540	2,654	886
29.	582 Uxbury Cres.	July 3/64	83,000,000	-	-	-	-
30.	884 Fourth St.	June 29/64	59,000,000	205	5,852	5,544	308
31.	1077 Fourth St.	June 29/64	0	8,000	19,670	17,812	1,858
32.	482 Fifth St.	July 3/64	770,000,000	610	8,044	6,892	1,152
33.	518 Fifth St.	July 3/64	47,000,000	4	1,540	264	1,286
34.	537 Fifth St.	July 3/64	800,000	60	1,890	978	912
35.	717 First St.	June 26/64	140,000,000	560	-	2,708	-
36.	935 First St.	June 26/64	800,000,000	-	-	-	-
37.	1520 Garnet Ave.	July 3/64	94,000,000	-	-	-	-
38.	880 Goodwin Rd.	June 23/64	57,000	24	2,626	2,052	574
39.	945 Hampton Cres.	June 23/64	400,000,000	2,250	32,630	21,852	778
40.	947 Hampton Cres.	June 23/64	320,000,000	1,650	21,194	20,640	554
41.	346 Jumna Ave.	June 24/64	900,000,000	-	-	-	-
42.	396 Jumna Ave.	June 24/64	1,200,000,000	300	1,762	1,002	760
43.	507 Jumna Ave.	July 3/64	2,600,000	40	4,018	3,266	752
44.	513 Jumna Ave.	July 3/64	1,120,000	10	1,182	466	716
45.	237 Lakebreeze Dr.	June 24/64	26,000,000	2,450	78,962	77,962	622
46.	1299 Lakebreeze Dr.	June 24/64	400,000	800	10,290	9,860	430
47.	497 Lynd Ave.	July 2/64	400,000	510	1,804	428	1,376
48.	530 Lynd Ave.	July 2/64	19,000,000	205	3,716	792	2,924

Sampling Point No.	Location	Date Examined	M.F. Coliform Count per 100 ml	5-Day BOD ppm.	SOLIDS			
					Total ppm.	Susp. ppm.	Diss. ppm.	
49.	1250 Mineola Gdns.	June 24/64	MALFUNCTIONING SEPTIC TANK					
50.	706 Montbeck Cres.	June 23/64	30,000,000	860	11,654	11,308	346	
51.	708A Montbeck Cres.	June 23/64						
52.	708 Montbeck Cres.	June 23/64						
53.	712 Montbeck Cres.	June 23/64						
54.	716 Montbeck Cres.	June 23/64						
55.	724 Montbeck Cres.	June 23/64						
56.	728 Montbeck Cres.	June 23/64						
57.	749 Montbeck Cres.	June 23/64	SEPTIC TANK FLOODING BACKYARD					
58.	585 Montbeck Cres.	June 23/64	2,400,000	2,100	51,226	50,908	318	
59.	591 Montbeck Cres.	June 23/64	90,000,000	1,350	38,866	37,926	940	
60.	609 Montbeck Cres.	June 23/64	500,000,000	2,000	15,248	14,444	840	
61.	1286 Northmount Ave.	June 29/64	2,300,000	310	22,192	21,518	674	
62.	1331 Northmount Ave.	June 29/64	170,000,000	800	18,564	17,220	1,344	
63.	1075 Sawyer Ave.	June 29/64	129,000,000	3,400	15,054	13,974	1,080	
64.	1060 Second St.	June 26/64	-	450	-	1,082	-	
65.	1093 Serson Ave.	June 29/64	790,000	17	1,268	328	940	
66.	855 Seventh St.	June 29/64	810,000,000	-	-	-	-	
67.	872 Tenth St.	June 29/64	640,000,000	370	3,134	2,864	270	
68.	1023 West Ave.	June 25/64	60,000,000	-	-	-	-	
69.	1033 West Ave.	June 25/64	7,400,000	-	-	-	-	
70.	1015 Westmount Ave.	June 22/64	2,010,000	90	1,862	1,406	456	
71.	1041 Westmount Ave.	June 22/64	60,000,000	165	3,462	3,360	102	
72.	1047 Westmount Ave.	June 22/64	15,000,000	220	3,276	2,540	736	
73.	1051 Westmount Ave.	June 22/64	15,000,000	220	3,276	2,540	736	
74.	1054 Westmount Ave.	June 22/64	10,000,000	630	5,924	5,344	580	
75.	1058 Westmount Ave.	June 22/64	114,000,000	-	-	-	-	

Sampling Point No.	Location	Date Examined	M.F. Coliform Count per 100 ml	5-Day BOD ppm.	SOLIDS		
					Total ppm.	Susp. ppm.	Diss. ppm.
76.	1067 Westmount Ave.	June 22/64	9,600	240	6,808	6,560	248
77.	1074 Westmount Ave.	June 22/64	760,000,000	-	-	-	-
78.	1094 Westmount Ave.	June 22/64	610,000,000	190	1,310	864	446
79.	1095 Westmount Ave.	June 22/64	-	-	-	-	-
80.	1100 Westmount Ave.	June 22/64	1,340,000,000	2,750	8,470	8,016	454
<u>Misc.</u>							
81.	Open ditch S.E. Lakeshore Rd. E. & Rd. to Toronto Twp. W.W.	June 23/64	5,500,000	34	702	512	190
82.	Creek at Crookes Park	June 23/64	530,000	15	758	360	398
83.	Creek at Lakeshore Rd. E. & Montbeck Cres.	June 23/64	360,000	3	466	10	456
84.	Storm Sewer Upstream from Wally's Trailer Park	June 25/64	8,000	5	358	38	320
85.	Storm Sewer Downstream from Wally's Trailer Park	June 25/64	120,000,000	200	822	386	436
86.	Storm Sewer at 1451 Lakeshore Rd. E.	June 29/64	7,900,000	38	632	62	570

Sampling Point No.	Location	Date Examined	M.F. Coliform Count per 100 ml	5-Day BOD ppm.	SOLIDS		
					Total ppm.	Susp. ppm.	Diss. ppm.
87.	Open Ditch E. of White Rose Service Station, 1457 Lakeshore Rd. E.	June 29/64	10,900,000	72	914	312	602
88.	Effluent from 1499 Lakeshore Rd. E.	June 29/64	-	280	920	150	770
89.	Storm Sewer Outfall at 215 Troy St.	June 23/64	9,000,000	90	2,066	1,296	770

Area #1B - Lakeview

90.	1376 Carmen Dr.	July 2/64	19,000,000	290	5,004	4,360	644
91.	1326 Kenmur Ave.	June 24/64	208,000,000	180	13,274	12,692	582
92.	1518 Kenmur Ave.	July 2/64	1,140,000,000	3,600	27,996	27,432	564
93.	1526 Kenmur Ave.	July 2/64	1,310,000,000	1,600	10,266	9,648	518
94.	1551 Kenmur Ave.	June 24/64	208,000,000	2,700	13,274	12,692	582
95.	1569 Kenmur Ave.	July 2	19,000,000	41	1,682	1,494	188
96.	1479 Trotwood Ave.	July 2/64	240,000,000	1,200	8,512	7,852	660
97.	1517 Trotwood Ave.	July 2/64	210,000,000	1,900	14,646	13,768	878

Area #2 - Cooksville

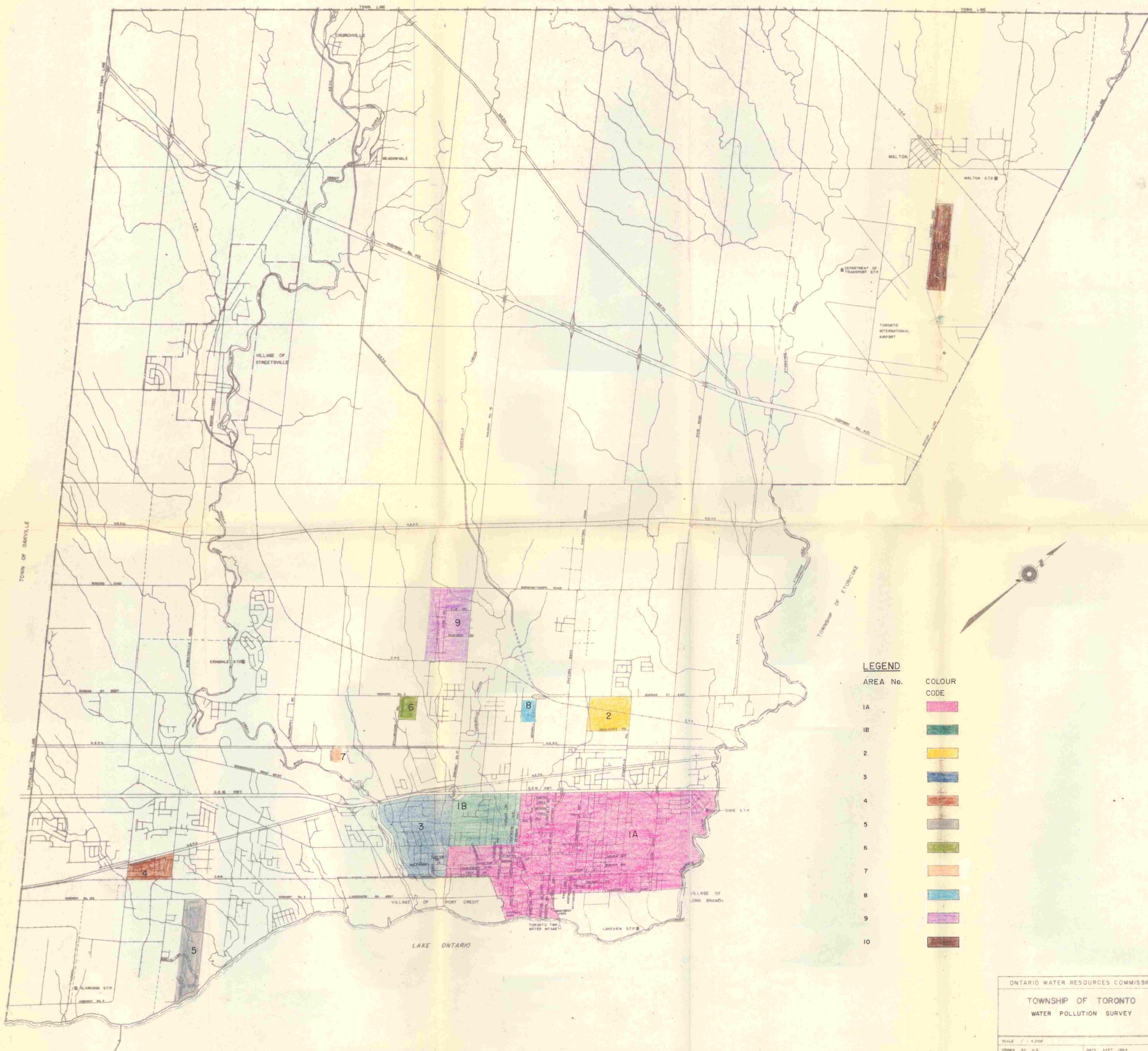
98.	Open Ditch - 950 Middlegate Rd.	July 7/64	6,700	7	578	150	428
99.	Effluent 922 Dundas St. E.	July 7/64	1,000,000	60	4,320	1,680	2,640

Sampling Point No.	Location	Date Examined	M.F. Coliform Count per 100 ml	5-Day BOD ppm.	SOLIDS		
					Total ppm.	Susp. ppm.	Diss. ppm.
100.	Effluent 872 Dundas St.E.	July 8/64	-	2.8	1,058	540	518
101.	Open Ditch at 861 Middlegate Rd.	July 8/64	58,000,000	640	1,458	256	1,202
102.	Effluent 861 Middlegate Rd.	July 8/64	490,000	540	952	44	908
<u>Area #3 - N. of Port Credit, West of Hwy. #10.</u>							
103.	29 Cotton Dr.	July 10/64	73,000	150	6,374	5,668	706
104.	39 Inglewood Dr.	July 10/64	71,000	255	2,182	1,576	606
105.	2552 Glengary Rd.	July 7/64	5,000,000,000	88	6,076	5,940	1,136
106.	1182 Vesta Dr.	July 7/64	20,000,000	94	3,936	3,472	464
107.	1272 Vesta Dr.	July 7/64	90,000,000	170	5,966	5,184	782
<u>Area #4 - Clarkson</u>							
108.	1971 Hindhead Rd.	July 8/64	1,040,000	750	20,276	232	20,044
109.	1977 Hindhead Rd.	July 8/64	23,000,000	540	2,508	2,508	512
110.	2034 Hindhead Rd.	July 8/64	28,000,000	620	10,580	10,580	468
<u>Misc.</u>							
111.	Creek at Southdown Road, and CNR Tracks.	July 8/64	8,500	4.2	452	47	405
112.	Creek at Clarkson Rd., North of Hwy. #2.	July 8/64	600,000	2.0	658	26	632

Sampling Point No.	Location	Date Examined	M.F. Coliform Count per 100 ml	5-Day BOD ppm.	SOLIDS		
					Total ppm.	Susp. ppm.	Diss. ppm.
<u>Area #5-Clarkson</u>							
113.	465 Apple Lane	July 8/64	119,000	55	5,844	5,250	594
114.	541 Bob-o-Lind Rd.	July 9/64	90,000,000	-	-	-	-
115.	374 Country Club Cres.	July 8/64	97,000,000	110	1,098	472	626
116.	402 Country Club Cres.	July 9/64	TILE FIELD FLOODING FRONT LAWN				
117.	412 Country Club Cres.	July 9/64	TILE FIELD FLOODING FRONT LAWN				
118.	422 Country Club Cres.	July 8/64	300,000,000	300	9,340	8,164	1,176
<u>Area #6 - Whaley Subdivision</u>							
119.	2468 Stillmeadow Rd.	July 7/64	690,000,000	680	3,848	704	3,144
120.	2560 Stillmeadow Rd.	July 7/64	1,800,000,000	225	1,954	610	1,344
121.	2544 Whaley Dr.	July 6/64	5,000,000,000	130	1,188	428	760
122.	2552 Whaley Dr.	July 6/64	150,000	22	2,744	1,820	924
123.	2578 Whaley Dr.	July 6/64	4,300,000	680	25,096	24,202	894
<u>Area #7-Oneida Crescent Subdivision</u>							
124.	2120 Oneida Cres.	July 6/64	OVERFLOW FROM TILE FIELDS ARE DIRECTED TO AN 8-INCH DIAMETER CONCRETE TILE WITH DISCHARGE TO CREDIT RIVER.				
125.	2130 Oneida Cres.	July 6/64					
<u>Area #8-Kendricks Subdivision</u>							

NO WASTE DISCHARGES WERE NOTICED AT THE TIME
OF THIS SURVEY.

Sampling Point No.	Location	Date Examined	M.F. Coliform Count per 100 ml	5-Day BOD ppm.	SOLIDS		
					Total ppm.	Susp. ppm.	Diss. ppm.
<u>Area #9 - Fairview Subdivision</u>							
126.	28 Elm Dr.	July 6/64	130,000,000	230	1,894	1,284	614
127.	38 Elm Dr.	July 6/64	18,000,000	-	-	-	-
128.	20 Fairview Rd.	July 6/64	260,000,000	620	36,572	35,986	586
129.	3303 Joan Dr.	July 6/64	140,000,000	-	-	-	-
130.	3335 Joan Dr.	July 6/64	1,820,000,000	320	7,946	6,540	1,406
131.	3341 Joan Dr.	July 6/64	570,000,000	800	8,074	6,346	1,728
132.	3347 Joan Dr.	July 6/64	8,100,000	110	2,708	2,150	558
133.	3468 Joan Dr.	July 6/64	580,000	105	4,286	2,322	1,964
<u>Area #10 - Airport Road</u>							
134	Lot Pt. S.W. 1/2- 8 Conc. 7 E.H.S. Airport Road	June 9/64	4,900,000	360	24,906	24,374	532
135	Aero Inn Airport Road	June 9/64	290,000,000	170	746	142	614



LEGEND

AREA No.

COLOUR CODE

1A

1B

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10

ONTARIO WATER RESOURCES COMMISSION

TOWNSHIP OF TORONTO
WATER POLLUTION SURVEY

SCALE 1" = 4,000'

DRAWN BY H.S.

CHECKED BY:

DATE: SEPT 1964

DRAWING No. 64-73